

**ABSTRACT OF THE DISCLOSURE**

In a heat-dissipating fan device, a fan impeller has a spindle mounted rotatably in a fan housing. A first magnetic ring member is disposed around a first stator coil mounted securely in the housing, and is coupled co-rotatably to the fan impeller such that a magnetic field induced by an external electrical current supplied to the first stator coil results in rotation of the fan impeller with the first magnetic ring member. Multiple light emitting elements are mounted on and are connected electrically to a circuit board mounted co-rotatably to the fan impeller. A second magnetic ring member is mounted securely in the fan housing, and is disposed around a second stator coil mounted on and electrically coupled to the circuit board and disposed around the spindle such that rotation of the second stator coil with the fan impeller results in an induced electrical current in the second stator coil.